Think together
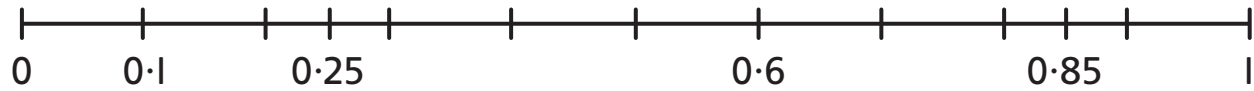
1 Write each decimal as a fraction. The first has been done for you.
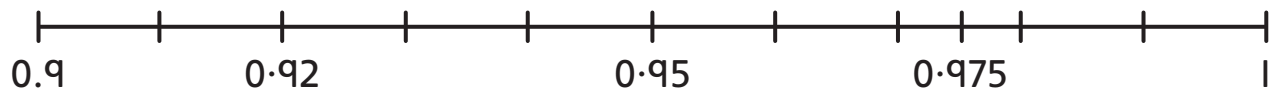

$0·1 = \frac{1}{10}$ $0·25 = \frac{\square}{\square}$ $0·6 = \frac{\square}{\square}$ $0·85 = \frac{\square}{\square}$

$0·92 = \frac{92}{100}$ $0·95 = \frac{\square}{\square}$ $0·975 = \frac{\square}{\square}$

2 Write each of these decimals as an improper fraction and as a mixed number.

2·3	
2	0·3

O	•	Tth	Hth
2	•	5	3

2·5   2·51
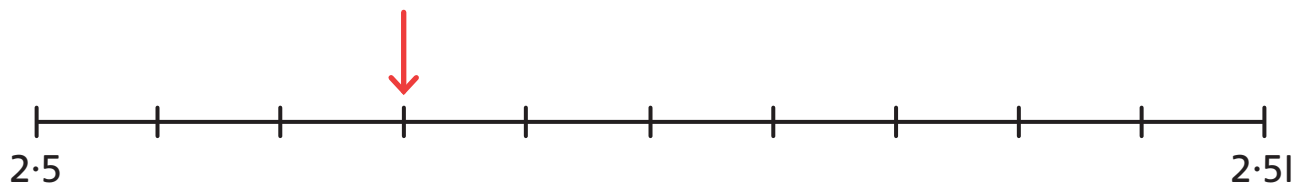
3 **a)** Complete the simplifications.

CHALLENGE

```
├──┼──┼──┼──┼──┼──┼──┼──┼──┼──┤
0    0·2  0·4  0·6  0·8   1   1·2  1·4  1·6  1·8   2
```

To simplify a fraction, you need to find a common factor of the numerator and the denominator.
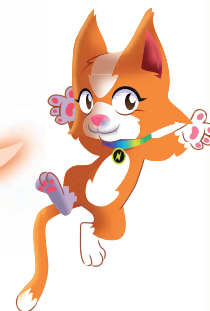
$0.2 \longrightarrow \frac{2}{10} \longrightarrow \frac{1}{5}$

$1.2 \longrightarrow \frac{12}{10} \longrightarrow \square \frac{\square}{\square}$

$0.4 \longrightarrow \frac{4}{10} \longrightarrow \frac{\square}{\square}$

$1.4 \longrightarrow \frac{\square}{\square} \longrightarrow \square \frac{\square}{\square}$

$0.6 \longrightarrow \frac{\square}{\square} \longrightarrow \frac{\square}{\square}$

$1.6 \longrightarrow \frac{\square}{\square} \longrightarrow \square \frac{\square}{\square}$

$0.8 \longrightarrow \frac{\square}{\square} \longrightarrow \frac{\square}{\square}$

$1.8 \longrightarrow \frac{\square}{\square} \longrightarrow \square \frac{\square}{\square}$

b) Convert these decimals into fractions and simplify them as far as you can.

| 0·25 | 0·125 | 0·875 | 0·35 | 0·95 |

➔ **Practice book 6B p12**